

Fig 1 lists the Typical Minimum Acceptable Bit Error Rates.

Bit Error Rate and Error Correction Criteria:

Typical Minimum Acceptable Bit Error Rate

Video: 10^{-5} BER

Audio: 10^{-3} BER

Data: 10^{-10} BER

Fig 1

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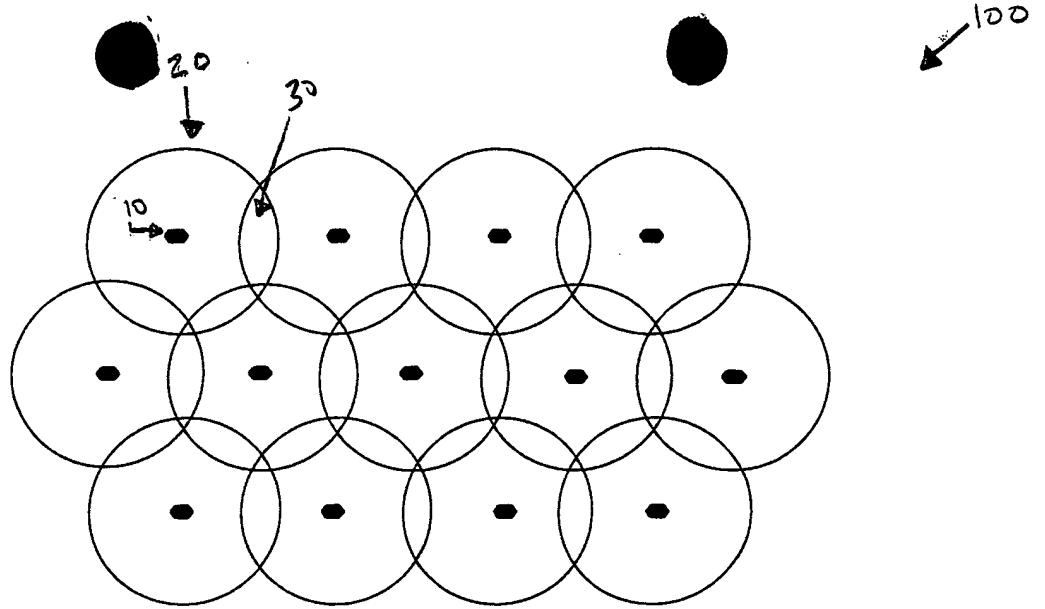
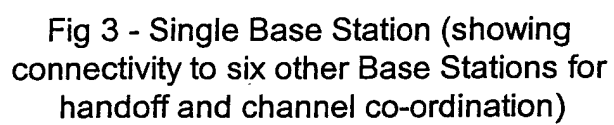


Fig 2 - Base Station Architecture
(showing overlapping coverage)

0980440-034294



As a Mobile Unit passes from one Sector to another, the Base Station will initiate a "soft handoff" for the channel change

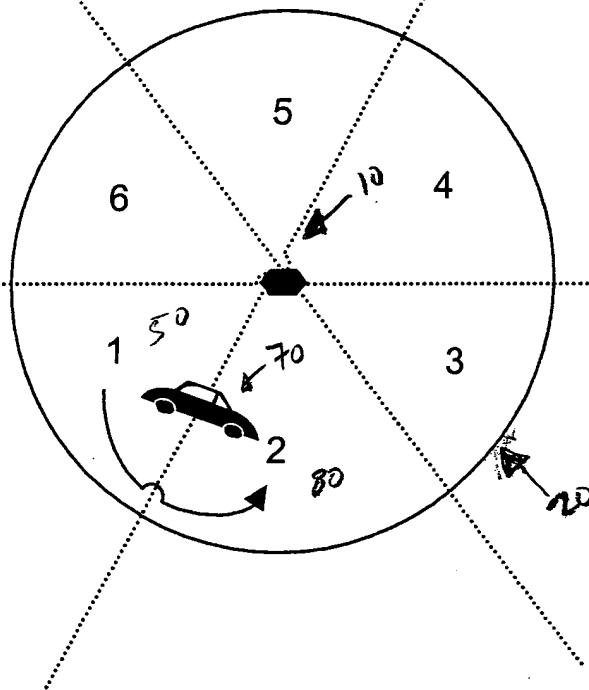


Fig 4 - Sectorization at UWB Base Station

0300440004004

500

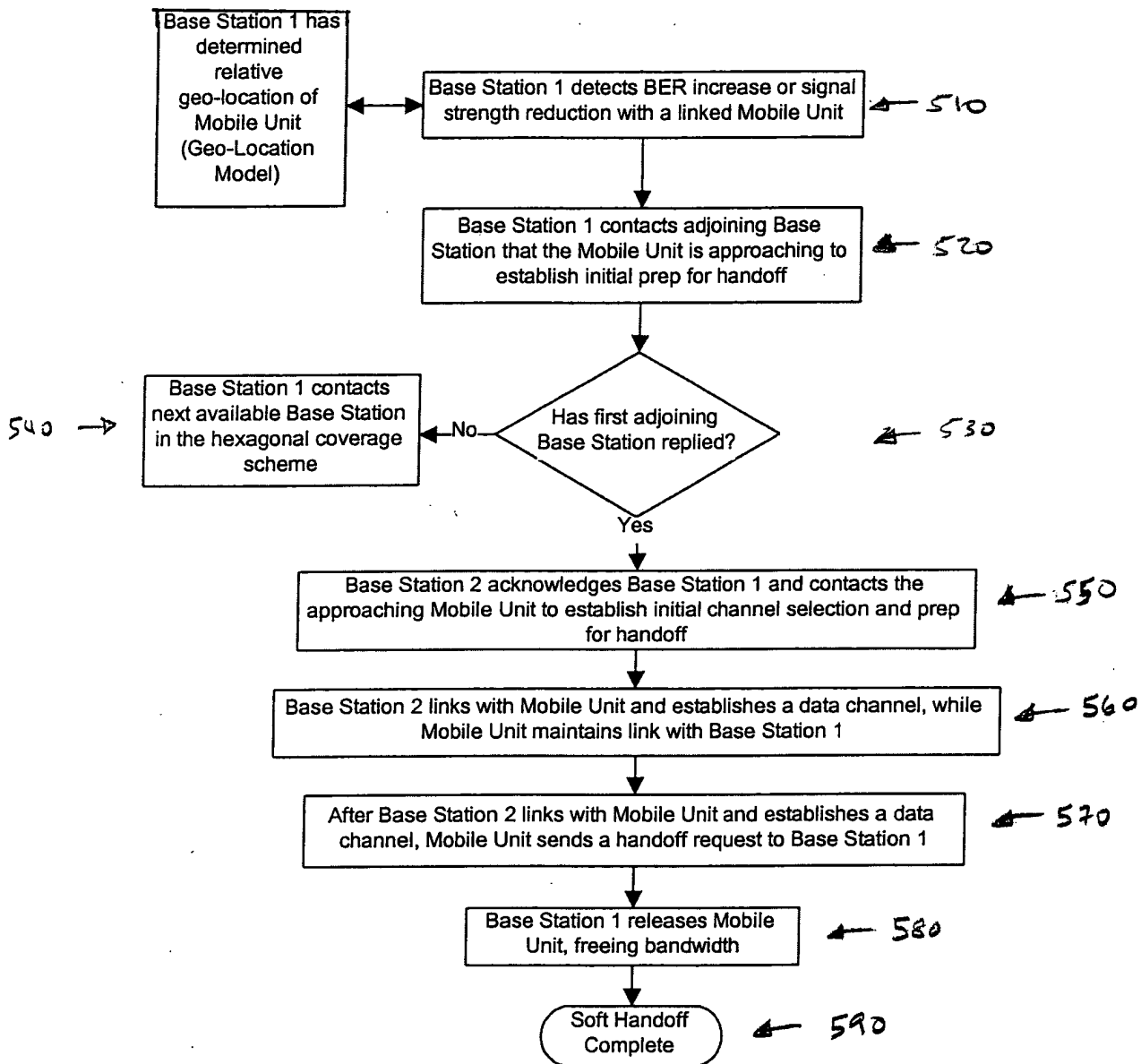


Fig 5 - Soft Handoff Scenario #1: Base Station to New Base Station to Mobile Unit

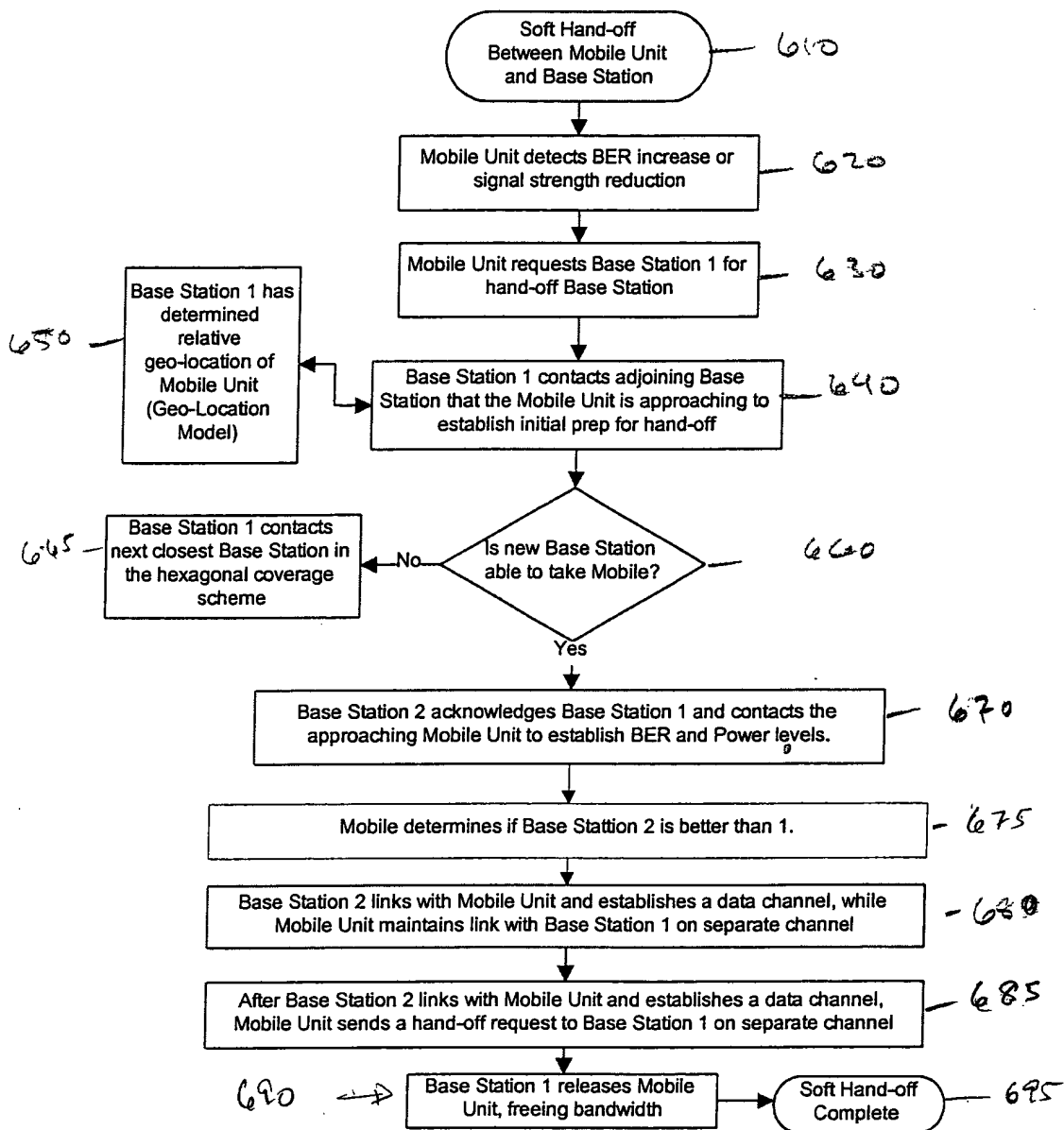


Fig 6 - Soft Hand-off Scenario #2: Mobile Unit to Base Station to New Base Station

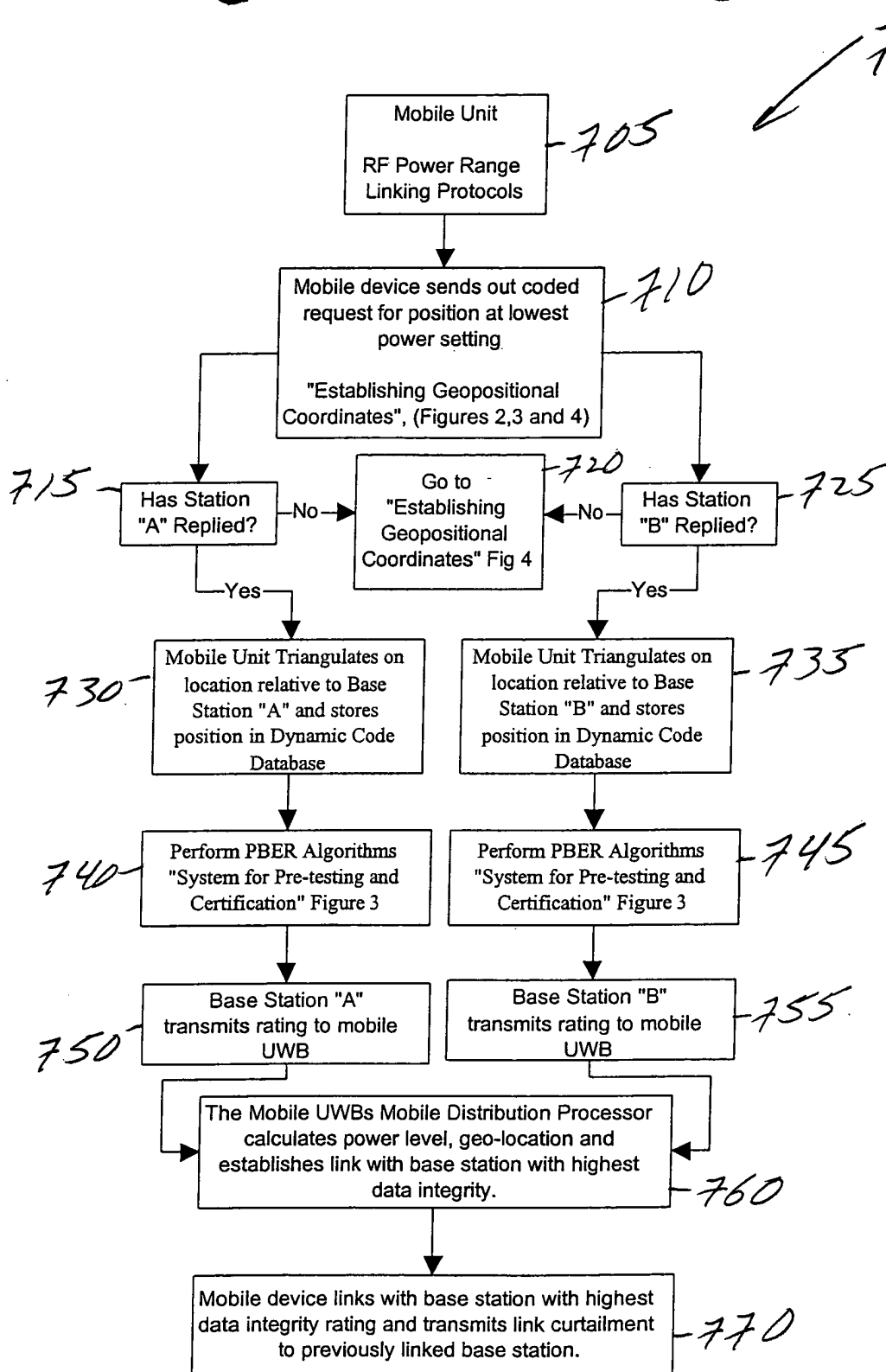
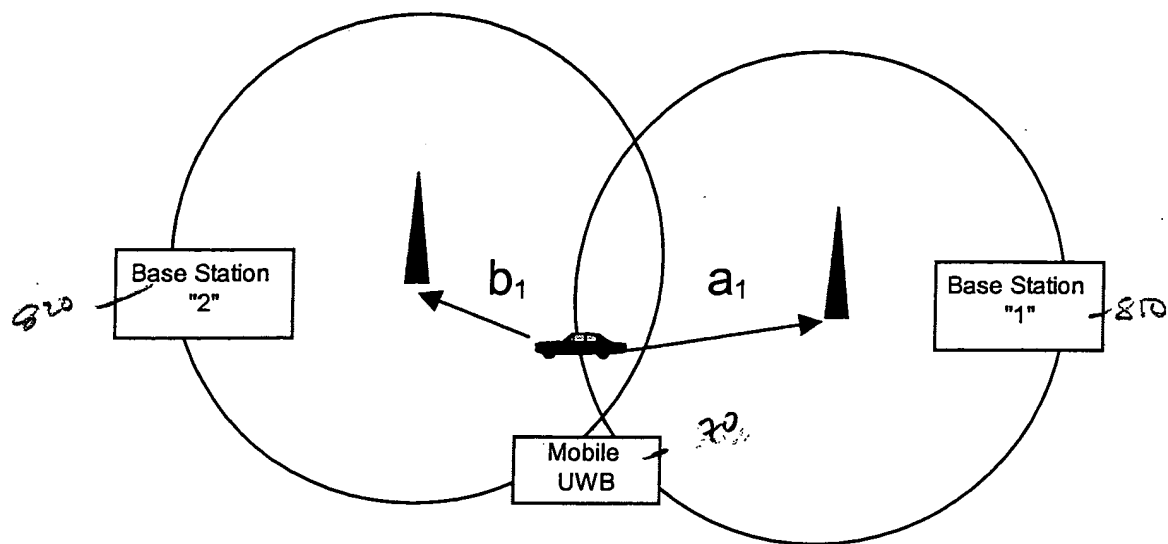


Fig 7 - Soft Hand-off Scenario #3: Performs Dynamic Power Range Linking



Mobile UWB is leaving range of Base Station "1" and is now within the range of Base Station "2"
 (Transmission distances are indicated by a_1 and b_1)

Fig 8 - Power-Range Linking Model for soft hand-off
 (Mobile leaving coverage of Base Station "2")

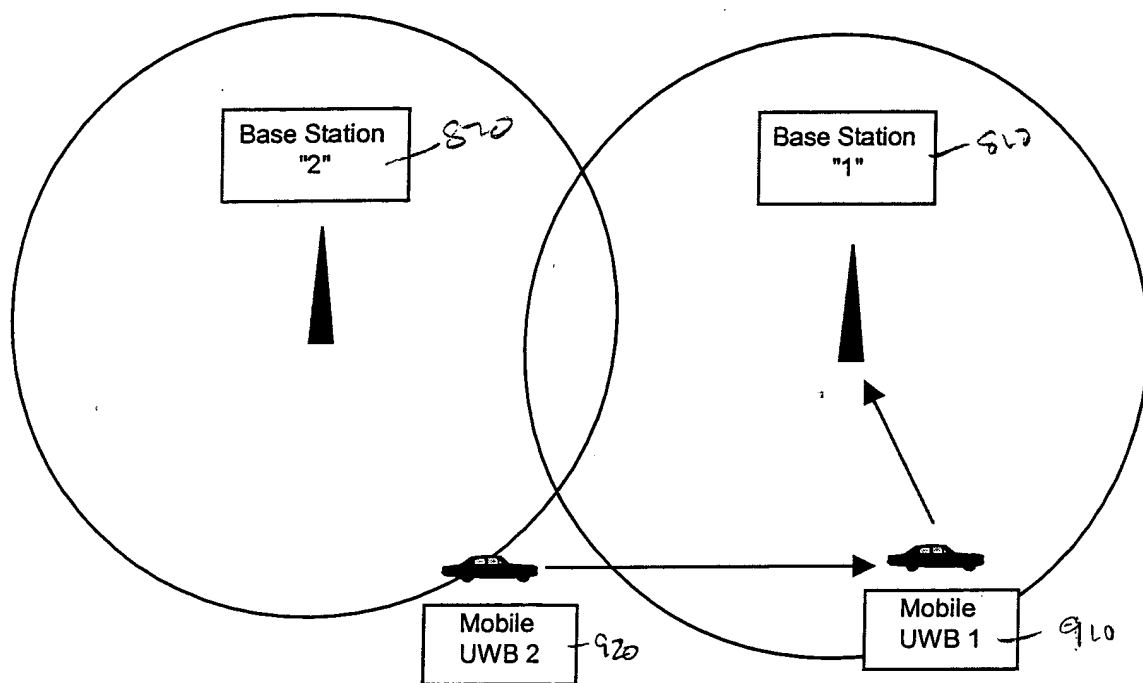


Fig 9 - Soft Hand-off Scenario #4 (Mobile Unit to Mobile Unit to Base Station, also providing emergency geo-locationing)

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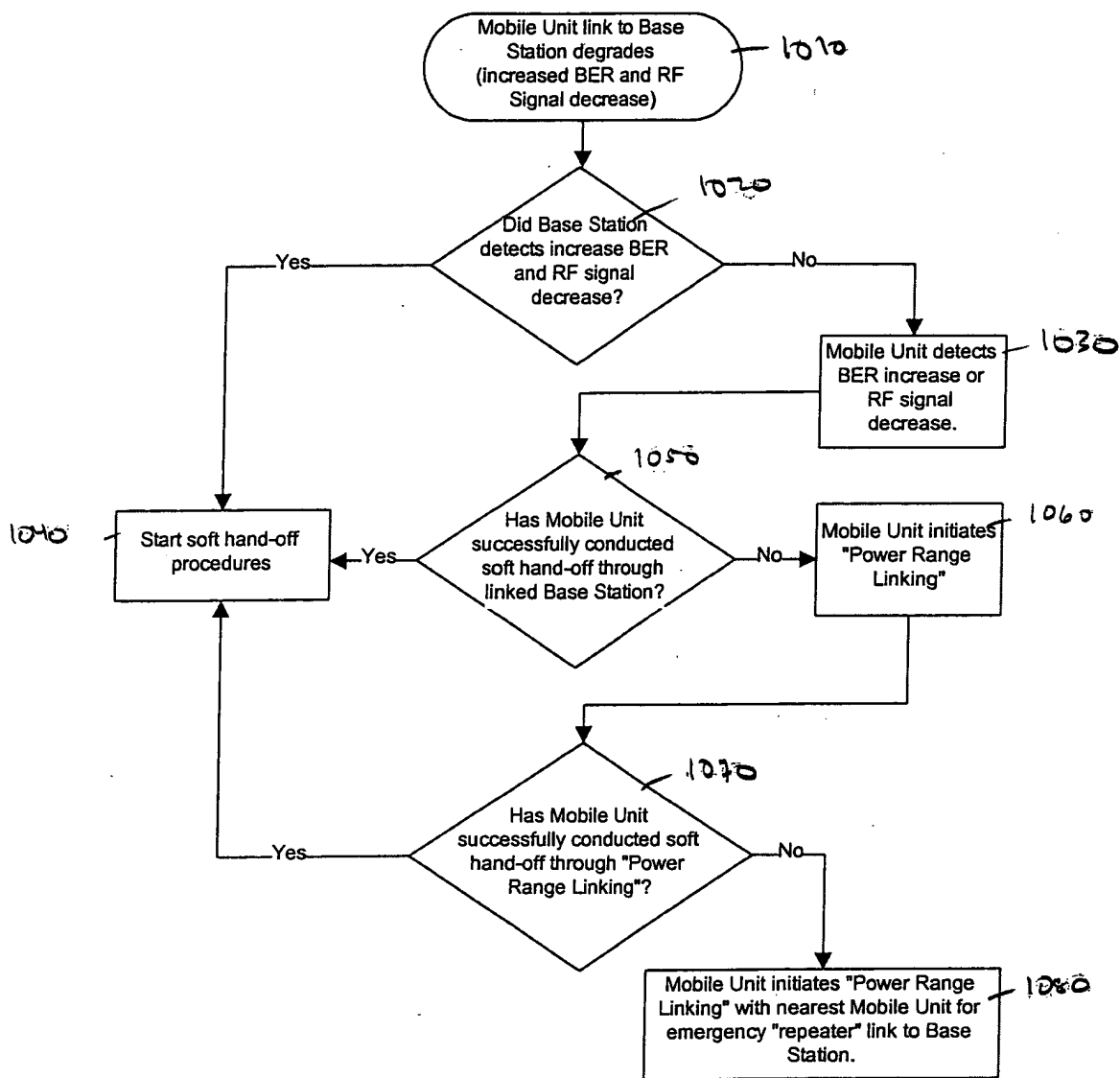


Fig 10 - Soft Hand-off procedures for Scenarios 1 through 4

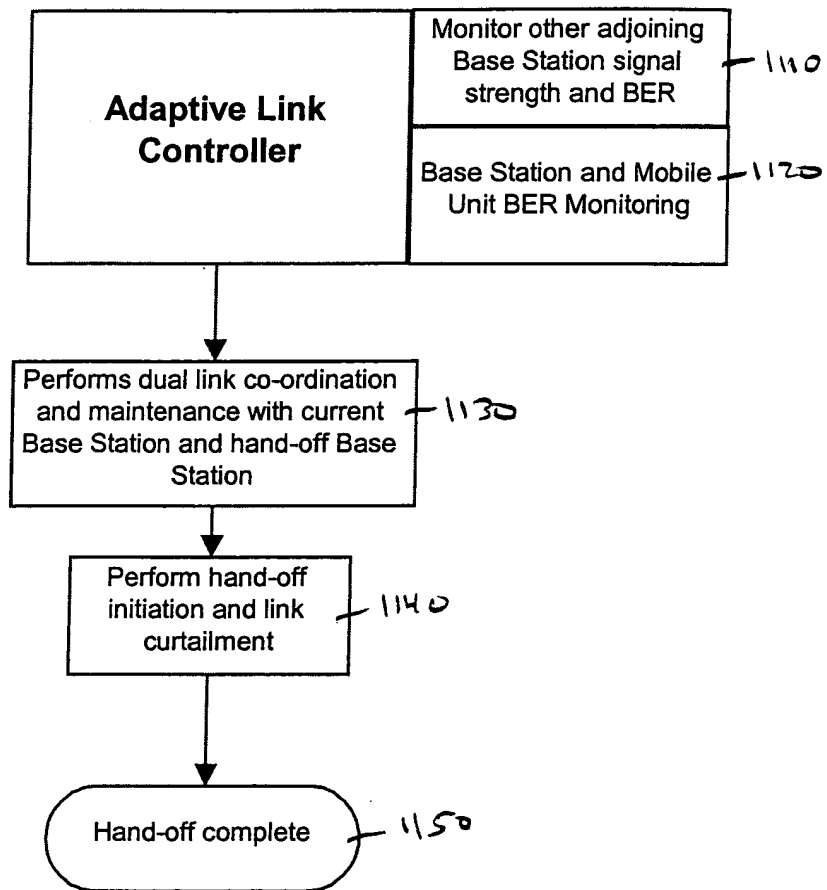


Fig 11 - Adaptive Link Controller